2379 BROAD STREET
BROOKSVILLE, FLORIDA 34604-6899
(352) 796-7211 or 1 –800-423-1476 (FL only)
TDD only: 1-800-231-6103 (FL only)

WATER USE PERMIT APPLICATION
MINING AND DEWATERING MATERIALS OTHER THAN PHOSPHATE

THIS APPLICATION FORM IS A STAND-ALONE FORM FOR MINING AND DEWATERING WATER USE FOR NON-PHOSPHATE MATERIALS ONLY. NO OTHER APPLICATION FORM IS REQUIRED UNLESS THIS PERMIT LOCATION IS IN THE SOUTHERN WATER USE CAUTION AREA*. THIS INFORMATION IS REQUESTED IN ACCORDANCE WITH RULES 40D-2.101 AND 40D-2.301, FLORIDA ADMINISTRATIVE CODE.

* Applicants in the Southern Water Use Caution Area (SWUCA) submitting this application in hard copy must also attach the SWUCA Supplemental Form (Form LEG-R.007.02 (04/09).)

Answer all questions. If a question is not applicable to the operation that is the subject of this application, enter N/A. If more space is needed to answer a question, attach additional sheets and refer to the application page and question number. Check attachment boxes if an attachment is included with this application. If there are other activities on this property for which water is required (such as agricultural or irrigation for reclamation of mined lands), submit an appropriate supplemental form for that water use activity. Minor water uses typically associated with all water use types (minor irrigation of the office compound lawn, potable/sanitary use for employees, and fire suppression) are included on this form.

Submit an original application, and one copy of all documents, drawings, cross sections, maps, etc. If documents include color-coding as part of the explanation, then the copies must be in color also.

PART I. ADMINSTRATIVE INFORMATION

A. APPLICANT: The applicant must be a landowner for the property covered by this application. If there are multiple landowners, all must be listed as co-applicants and the same administrative information must be listed for all applicants on an attachment. If the property is owned by a business entity, list the business entity as the applicant.

The permit will be issued in the names of all persons or entities as listed on the deed for the property. If the applicant wants to include the name of any lessees, they may also be listed. All correspondence will be addressed to all applicants listed here with copies to all designated contacts or consultants. This application must be signed by all applicants.

Name: _____ Telephone: (____) ____ -_____

Address: _____ Cell Phone: (____) ____ -_____

City, State, ZIP: _____ Email: _____

Project Name: _____ County(ies): _____

List Section-Township-Range(s): _____

Address of Mining or Dewatering site: _____

❑ Attachments for co-applicants are included.

B. TYPE OF APPLICATION (check one)**:** ❑ New ❑ Renewal ❑ Modification

❑ If this is an application for water use on property for which the water use permit was allowed to expire, check here and indicate the former permit number. _____

C. WATER USE PERMIT (WUP) NUMBER: _____ (renewals or modifications only)

D. THIS APPLICATION IS FOR: ❑ A new mining or dewatering operation

❑ An expansion of an existing mining or dewatering operation

❑ Existing mining or dewatering operation that is not expanding

E. MATERIALS MINED: ❑ Limestone ❑ Sand/Gravel ❑ Shell ❑ Peat ❑ Other (describe): _____

F. PERMIT TERM: If this is an application for a modification, the existing permit term typically will apply. If this is an application for a new permit or for renewal of an existing permit, please check the permit term requested:

❑ 6 years ❑ 10 years If a permit term greater than 10 years is requested, attach an explanation for the need.

G. CONSULTANT: This is a person who may be employed to assist the applicant with their application. If there is a designated consultant for the District to contact regarding this application, please provide their name, address, telephone number and email address below. A copy of all correspondence with the applicant will be copied to the consultant until such time as the permit is issued. *An applicant can have both a consultant and a contact (see immediately below), and they can be the same or different persons.*

❑ Not applicable. There is no consultant.

Name: _____ Telephone: (____) ____ -_____

Address: _____ Cell Phone: (____) ____ -_____

City, State, ZIP: _____ Email: _____

Company: _____

H. CONTACT: This is a person other than the permittee who handles all correspondence including compliance correspondence on behalf of the permittee after the permit is issued. If you wish to designate a person for the District to contact regarding the application and permit, please provide contact information below. A copy of all correspondence with the contact will be copied to the permittee.

❑ Not applicable. The applicant is the contact.

Name: _____ Telephone: (____) ____ -_____

Address: _____ Cell Phone: (____) ____ -_____

City, State, ZIP: _____ Email: _____

Company: _____

PART II. PROPERTY CONTROL

A. NEW AND RENEWAL APPLICATIONS: Provide documentation of ownership or legal control of the property (control that is other than direct ownership). ❑ Attached

B. THE PROPERTY TO BE INCLUDED IN THIS PERMIT IS:

❑ Owned by the applicant.
❑ Legally controlled by the applicant, excluding a lease (this pertains to legal control, such as estate trustees).

Acreage owned and/or controlled: _____

C. LEASED PROPERTY: If a lease is pertinent to this application, indicate the following:

❑ Applicant is the lessor. If a lessee of the applicant/owner's property is to be a co-applicant, provide either a copy of the lease or a letter describing the lease arrangement and duration.

❑ Attached ❑ Not Applicable

❑ Applicant is the lessee. This applies when the applicant is leasing property on which water is to be used from the applicant's withdrawal facilities for the applicant's use.

Indicate the number of acres under lease: _____

Provide either a copy of the lease or a letter describing the lease arrangement and duration.

❑ Attached ❑ Not applicable

D. SERVICED PROPERTY: This applies to land for which the applicant will provide water for another property owner's use. The applicant does not have a lease on this property, there is no water use permit for the property, and there are no withdrawal facilities on the property. The water use will be included on this permit.

Indicate the number of acres serviced: _____

Provide a copy of the service agreement describing the service arrangement and duration.

❑ Attached ❑ Not applicable

NOTE: *When a lessee is listed as a co-applicant, permits will not be issued for a period longer than the lease unless the lease is renewable. If renewable, the applicants will be required to provide a copy of the renewed lease at the appropriate time. All property owners and lessees must sign this application.*

PART III. RELATED PERMITTING/APPROVALS

A. ENVIRONMENTAL RESOURCE PERMIT

Check the situation that applies to the operation that is the subject of this application:

❑ This mining or dewatering activity is exempt from the requirement to obtain a surface water management permit. Provide documentation showing the exemption status of the mine(s) to be included in this WUP.
  ❑ Attached

❑ A surface management water permit (Management and Storage of Surface Water [MSSW] or Environmental Resource Permit [ERP]) exists for the activity for which this application is submitted.

  MSSW/ERP No.: _____

❑ A surface water management permit already exists (MSSW/ERP No. _____), but needs to be modified to include the proposed activity.

  ❑ An application for modification was submitted on _____ *(mm/dd/yyyy)*, and was deemed complete for approval on _____ *(mm/dd/yyyy)*

  ❑ An application for modification has not been submitted. ***Note:*** *A WUP will not be issued for mining/dewatering activity until an ERP has been issued or an application for one is deemed complete for approval.*

❑ A surface water management permit does not exist for the activity for which this application is submitted.

  ❑ An application was submitted on _____ *(mm/dd/yyyy)*, and it was deemed complete for approval on _____ *(mm/dd/yyyy).*

  ❑ An application is not submitted. It will be submitted _____

  Note: *If an ERP is required, a WUP will not be issued for mining/dewatering activity until an ERP has been issued or an application for one is deemed complete for approval.*

B. INDUSTRIAL WASTEWATER (IWW) PERMIT

Has an IWW permit been issued for the area covered by this application for sorting and grading activities?

❑ Yes IWW Permit No.: _____

❑ No, the application was submitted _____

❑ No, there will be no sorting and grading on-site.

C. FACILITATING AGRICULTURAL RESOURCE MANAGEMENT SYSTEMS (FARMS) PROJECT

Will the mine become an alternative water supply source under a District FARMS project?

❑ Yes FARMS Application or Project No.: _____

❑ No

D. NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT *(U.S. Environmental Protection Agency permit issued by the Florida Department of Environmental Protection)*

Will there be off-site discharge from this site due to the proposed activities?

❑ Yes NPDES Permit No(s): _____

❑ Yes, the application was submitted _____

❑ No; there will not be off-site discharge of water.

PART IV. GEOLOGIC AND HYDROLOGIC EVALUATION

A. PROSPECT MAP AND REPORT: Submit a geologic and hydrologic report and plan-view map showing locations of soil borings, test cores, drill cuttings, and geophysical analyses that provide information on overburden thickness and disposition, depth and thickness of the material to be mined, water table elevations and other pertinent aquifer water elevations for the wet and dry season. In the geological report, include the geologic descriptions of the soil borings, test cores and drill cuttings as well as the interpreted geophysical analyses. If a geological study was done on the material to be mined, include a copy. Reference all elevations, levels and depths to National Geodetic Vertical Datum of 1929 (NGVD29). New mining/dewatering applications are to use North American Vertical Datum of 1988 (NAVD88). Show the datum reference on all maps and all data collection sites on an aerial photographic map.

B. MINING OPERATIONS MAP: Submit a plan-view map of the existing and proposed mining plans for the duration of this permit. Show all components of the mining operation including any pre-mitigation measures, such as hydraulic recharge/intercept ditches, setback distances, etc. Provide length, depth and width information for all proposed mines and pre-mitigation constructions. Show the locations of the cross sections required below, clearly labeled (e.g., A-A'; B-B'. etc.). Indicate any off-site water bodies that are receiving discharge from this site and label it with the water body name.

C. CROSS SECTIONS: Provide a minimum of two perpendicularly transecting cross sections (preferably north-south and east-west) that encompass the entire mine pit for each area to be mined. Each cross section must show (1) pre-mining land surface elevations, (2) depth of overburden, (3) depth of material to be mined, (4) wet and dry season pre-mining water table or aquifer water level elevations, and (5) maximum depth to be dewatered, if dewatering will occur. If dewatering will occur in successive stages, provide two transecting cross sections for each stage. Cross sections must also be provided that transect any existing or proposed hydraulic recharge/intercept ditches and include both the ditch and the associated mine pit. Depict the cone of influence on the water table or aquifer level at maximum dewatered depth of the mine pit relative to the location and depth of the ditch. The mine pit and hydraulic recharge/intercept ditches must be shown at scaled proposed distances from each other. Reference each cross section to the map required above. Reference all elevations, levels and depths to NGVD29 or NAVD88 per the Prospect Map and Report.

PART V. WITHDRAWAL POINT INFORMATION

Note: This part pertains to *sources* of water required for a use, not *dewatering wells* or surface water *withdrawal points to be used to dewater* overburden or matrix. Those will be addressed in a later parts of the application.

A. GROUNDWATER WELLS

List all wells that are greater than 2 inches in outside diameter that are on the property. All wells must be included in the table below, whether active or inactive (capped, standby) and whether existing or proposed. Provide an identification number (Owner ID number) for the wells, and complete the column below with requested information. All depths are feet below land surface.

❑ Not Applicable. Groundwater wells are not used or to be used as a source of water at this project. **Skip to Section B (page 6)**

	Owner ID No.	**Owner ID No.**	**Owner ID No.**
	#_____	#_____	#_____
District ID No. *Assigned by District if included on existing WUP; if not, leave blank.*	#_____	#_____	#_____
Status	❑ Existing ❑ Proposed ❑ Plugged ❑ Capped	❑ Existing ❑ Proposed ❑ Plugged ❑ Capped	❑ Existing ❑ Proposed ❑ Plugged ❑ Capped

(Withdrawal Table Continued)

Owner ID / District ID	____________/___________	____________/___________	____________/___________
Function	❑ Augmentation ❑ Recharge of Mine Cell ❑ Materials Processing ❑ Cleaning/Maintenance ❑ Mitigation of Dewatering Impacts ❑ Fire Suppression ❑ Other: ________________	❑ Augmentation ❑ Recharge of Mine Cell ❑ Materials Processing ❑ Cleaning/Maintenance ❑ Mitigation of Dewatering Impacts ❑ Fire Suppression ❑ Other: ________________	❑ Augmentation ❑ Recharge of Mine Cell ❑ Materials Processing ❑ Cleaning/Maintenance ❑ Mitigation of Dewatering Impacts ❑ Fire Suppression ❑ Other: ________________
Aquifer *Aquifer/aquifer system from which water is withdrawn. For recharge wells, system where water is injected.*	❑ Surficial Aquifer System ❑ Intermediate Aquifer System ❑ Intermediate and Upper Floridan Aquifer Systems ❑ Upper Floridan Aquifer System	❑ Surficial Aquifer System ❑ Intermediate Aquifer System ❑ Intermediate and Upper Floridan Aquifer Systems ❑ Upper Floridan Aquifer System	❑ Surficial Aquifer System ❑ Intermediate Aquifer System ❑ Intermediate and Upper Floridan Aquifer Systems ❑ Upper Floridan Aquifer System
Pump Capacity	gpm	gpm	gpm
Mainline Diameter	inches	inches	inches
Metered	❑ Yes ❑ No	❑ Yes ❑ No	❑ Yes ❑ No
Meter Type *(if currently metered)*	❑ Analog totalizing flow meter ❑ Digital totalizing flow meter Data units if other than gallons: __________________	❑ Analog totalizing flow meter ❑ Digital totalizing flow meter Data units if other than gallons: __________________	❑ Analog totalizing flow meter ❑ Digital totalizing flow meter Data units if other than gallons: __________________
Meter serial number *(if currently metered)*			
Well Construction Permit Number. *(If not known, write UNK)*			
Construction Date *Completion date for operation or anticipated completion date.*	________________ (mm/yyyy)	________________ (mm/yyyy)	________________ (mm/yyyy)
Casing Diameter *(outer at land surface)*	inches	inches	inches
Total Depth*			
Casing Depth*			
Liner Top Depth*			
Liner Bottom Depth*			
Pump Bowl Depth*			
Annual Average Quantity	gpd	gpd	gpd
Peak Month Quantity	gpd	gpd	gpd
Full Standby**	❑ Yes ❑ No	❑ Yes ❑ No	❑ Yes ❑ No
Partial Standby***	❑ Yes ❑ No Routine Annual Average Quantities: ______________________ gpd SB Annual Average Quantities: ______________________gpd	❑ Yes ❑ No Routine Annual Average Quantities: ______________________ gpd SB Annual Average Quantities: ______________________gpd	❑ Yes ❑ No Routine Annual Average Quantities: ______________________ gpd SB Annual Average Quantities: ______________________gpd

** For proposed wells, indicate proposed design depths.*

***Well not to be used unless another withdrawal point or off-site alternative water supply source becomes unavailable*

****Well routinely used but on standby if another withdrawal point or off-site alternative water supply source becomes unavailable.*

1. Describe the future use of all capped wells. If there are multiple wells that are or are to be in capped status, reference the Owner ID numbers:

_____

_____

_____

_____

_____

2. List any wells (District ID number or Owner ID number) for which a caliper or video log has been created but has not been previously submitted to the District.

_____

_____

_____

_____

3. Submit a copy of the log and check the type that applies: ❑ Video ❑ Caliper ❑ Not applicable

B. SURFACE WATER WITHDRAWAL POINTS USED TO PROVIDE WATER

List and provide information for all surface water withdrawal points from a surface water body (pond, pit, lake, or other impoundment, stream, river or canal) that are used to provide water for a use where the outside diameter of the withdrawal pipe or the sum of the outside diameters of the withdrawal pipes is 4 inches or greater. Include existing, inactive (those where the pump and pipe assembly still exist but are not used) and proposed surface water withdrawal points.

❑ Not Applicable. There are no surface water withdrawal points used to provide water at this project. **Skip to Section C (page 7).**

Information for withdrawals from recirculation or settling ponds is in the Alternative Water Supply Section. Information regarding surface water withdrawal points used for dewatering purposes is in PART IV, Mining Operations and Methods.

	Owner ID No.	Owner ID No.	Owner ID No.
District ID No. *(if existing)*			
Name/Number of Water Body or Settling/ Recirculation Pond			
Source Type	❑ Natural ❑ Created - Lined ❑ Created - Unlined	❑ Natural ❑ Created - Lined ❑ Created - Unlined	❑ Natural ❑ Created - Lined ❑ Created - Unlined
Water Body Type	❑ Borrow Pit ❑ Pond /Lake ❑ Reservoir ❑ Canal ❑ River/Stream	❑ Borrow Pit ❑ Pond /Lake ❑ Reservoir ❑ Canal ❑ River/Stream	❑ Borrow Pit ❑ Pond/Lake ❑ Reservoir ❑ Canal ❑ River/Stream
Acreage *(Put "N/A" if flowing water body.)*	acres	acres	acres
Status	❑ Existing ❑ Proposed ❑ Dismantled	❑ Existing ❑ Proposed ❑ Dismantled	❑ Existing ❑ Proposed ❑ Dismantled
Intake Diameter *Outside diameter of pipe*	inches	inches	inches
Mainline Diameter	inches	inches	inches

(Surface Water Withdrawal Points Continued)

Owner ID / District ID	____________/___________	____________/___________	____________/___________
Function	❑ Augmentation ❑ Recharge of Mine Cell ❑ Materials Processing ❑ Cleaning/Maintenance ❑ Mitigation of Dewatering Impacts ❑ Repump ❑ Fire Suppression ❑ Other: _________________	❑ Augmentation ❑ Recharge of Mine Cell ❑ Materials Processing ❑ Cleaning/Maintenance ❑ Mitigation of Dewatering Impacts ❑ Repump ❑ Fire Suppression ❑ Other: _________________	❑ Augmentation ❑ Recharge of Mine Cell ❑ Materials Processing ❑ Cleaning/Maintenance ❑ Mitigation of Dewatering Impacts ❑ Repump ❑ Fire Suppression ❑ Other: _________________
Construction Date *(installation into water body)*	_______________ (mm/yyyy)	_______________ (mm/yyyy)	_______________ (mm/yyyy)
Pump Capacity	gpm	gpm	gpm
Currently Meter	❑ Yes ❑ No	❑ Yes ❑ No	❑ Yes ❑ No
Meter Type *(if currently metered)*	❑ Analog totalizing flow meter ❑ Digital totalizing flow meter Data units if other than gallons: ________________________	❑ Analog totalizing flow meter ❑ Digital totalizing flow meter Data units if other than gallons: ________________________	❑ Analog totalizing flow meter ❑ Digital totalizing flow meter Data units if other than gallons: ________________________
Meter Serial Number *(if currently metered)*			
Annual Average Quantity	gpd	gpd	gpd
Peak Month Quantity	gpd	gpd	gpd
Standby	❑ Full ❑ Partial ❑ No	❑ Full ❑ Partial ❑ No	❑ Full ❑ Partial ❑ No
Standby Annual Average Quantities *(leave blank if this withdrawal point is not on Full or Partial standby)*	gpd	gpd	gpd

C. ALTERNATIVE WATER SUPPLY (AWS)

"Alternative water supply" (AWS) describes water that has been reclaimed after one or more public supply, municipal, industrial, commercial or agricultural uses; the downstream augmentation of water bodies with reclaimed water; storm water; or any other water supply source that is designated as non-traditional for a water supply planning region in the applicable regional water supply plan. Other alternative water supplies are: saltwater; brackish surface water or brackish ground water; surface water captured predominately during wet-weather flows; sources made available through the addition of new storage capacity for surface or ground water. Inclusion of reclaimed water and seawater in this definition does not alter the exemption from water use permitting for these sources (see the Water Use Permit Information Manual, Part B, Basis of Review*, Section 1.2).*

❑ Not applicable. Use of an alternative water supply is not anticipated during the term of this permit.

If you checked "not applicable," attach a report on your investigation of the feasibility of using alternative water supply to reduce withdrawals from the resource. If the report states that use of an alternative water supply was found to be infeasible, the reason must be fully documented. Infeasibility can include unavailability or that it is cost prohibitive.

❑ AWS Feasibility Report attached. ***Skip to PART VI MINING OPERATIONS AND METHODS (page 10)***

1. **AWS Supplier:** If you received AWS or will receive AWS during the upcoming or remaining permit term from an offsite supplier, please provide the information below for the supplier. If the supplier has a water use permit (WUP), provide the WUP number. Submit a copy of the contract or agreement between you and the supplier that shows contract amounts and cost per 1,000 gallons.

   ❑ N/A AWS is Self-Supplied only. **Skip to "Number 2, AWS Facilities"**.

   Name:_____

   Address: _____

   City/State/Zip: _____

   Telephone ( ) _____Email: _____WUP No. _____
   (if the supplier has one)

   ❑ Contract Attached

   Name:_____

   Address: _____

   City/State/Zip: _____

   Telephone ( ) _____Email: _____WUP No. _____
   (if the supplier has one)

   ❑ Contract Attached

   Attach the same information for additional suppliers. ❑ Attached

2. **AWS Facilities:** Complete the table below and on the next page with information on the type of AWS and facilities used. All of these are listed as withdrawal points on the permit. Include AWS types even if a water use permit is not required for its use.
   - **a.** Inflow: A line that brings offsite AWS onto the property.
   - **b.** Repump: The withdrawal point used to pump AWS that is derived offsite from a containment facility (pond, lake, etc.) if such a containment facility is used. Note: If there is repump of AWS, there is an inflow and both the augmentation source (the inflow line onto the property) and the repump facility must be listed. However, if the AWS source is self-supplied, only the repump facility must be listed.
   - **c.** Self-supplied: The place where self-generated AWS leaves the site of origin or storage for its use. It is neither inflow nor repump but will be indicated as self-supplied AWS source in the table below.

AWS Facilities Table

	Owner ID No.	**Owner ID No.**	**Owner ID No.**
District ID No.			
Status	❑ Existing ❑ Standby ❑ Proposed ❑ Dismantled	❑ Existing ❑ Standby ❑ Proposed ❑ Dismantled	❑ Existing ❑ Standby ❑ Proposed ❑ Dismantled
Type	❑ Inflow ❑ Repump ❑ Self-Supplied	❑ Inflow ❑ Repump ❑ Self-Supplied	❑ Inflow ❑ Repump ❑ Self-Supplied
Pump Capacity	gpm	gpm	gpm
Currently Metered	❑ Yes ❑ No	❑ Yes ❑ No	❑ Yes ❑ No
Meter Type *(if currently metered)*	❑ Analog totalizing flow meter ❑ Digital totalizing flow meter	❑ Analog totalizing flow meter ❑ Digital totalizing flow meter	❑ Analog totalizing flow meter ❑ Digital totalizing flow meter
Meter Owner *Applicant or supplier.*			
Meter Serial Number *(if currently metered)*			

(AWS Facilities Table continued)

Owner ID/District ID	____________/_____________	____________/_____________	____________/_____________
Function *Reason for the water*	❑ Augmentation to Containment Facility ❑ Recharge of Mine Cell ❑ Materials Processing ❑ Slurry Makeup ❑ Cleaning/Maintenance ❑ Mitigation of Dewatering Impacts ❑ Fire Suppression ❑ Other: _________________	❑ Augmentation to Containment Facility ❑ Recharge of Mine Cell ❑ Materials Processing ❑ Slurry Makeup ❑ Cleaning/Maintenance ❑ Mitigation of Dewatering Impacts ❑ Fire Suppression ❑ Other: _________________	❑ Augmentation to Containment Facility ❑ Recharge of Mine Cell ❑ Materials Processing ❑ Slurry Makeup ❑ Cleaning/Maintenance ❑ Mitigation of Dewatering Impacts ❑ Fire Suppression ❑ Other: _________________
Alternative Water Supply Type	❑ Wastewater treatment (WWT) ❑ Captured storm water in catchment/basin * ❑ Industrial waste water ❑ Settling pond at a dewatering project ❑ Industrial process byproduct ❑ Brackish ground water ❑ Brackish surface water	❑ Wastewater treatment (WWT) ❑ Captured storm water in catchment/basin * ❑ Industrial waste water ❑ Settling pond at a dewatering project ❑ Industrial process byproduct ❑ Brackish ground water ❑ Brackish surface water	❑ Wastewater treatment (WWT) ❑ Captured storm water in catchment/basin * ❑ Industrial waste water ❑ Settling pond at a dewatering project ❑ Industrial process byproduct ❑ Brackish ground water ❑ Brackish surface water
Facility Type *(Inflow and repump only)*	**Inflow** (off-site supplier)**:** ❑ WWT facility – pressurized pipe ❑ WWT facility – unpressurized pipe ❑ Other than WWT facility source **Repump:** ❑ From a lined holding pond ❑ From an unlined holding pond	**Inflow** (off-site supplier)**:** ❑ WWT facility – pressurized ❑ WWT facility – not pressurized ❑ Other than WWT facility source **Repump:** ❑ Lined holding pond ❑ Unlined holding pond	**Inflow** (off-site supplier)**:** ❑ WWT facility – pressurized ❑ WWT facility – not pressurized ❑ Other than WWT facility source **Repump:** ❑ Lined holding pond ❑ Unlined holding pond
Mainline Diameter ***Inflow facilities:*** *Outer pipe diameter delivering AWS* ***Repump facilities:*** *Outside diameter of withdrawal pipe.*	______________________inches	____________________ inches	____________________ inches
Expected Annual Average Quantity**	gpd	gpd	gpd
Expected Minimum Monthly Delivery *Minimum quantity/month per contract or agreement.*	gpd	gpd	gpd
Number of Months Availability *Number of months/year supply is likely be available.*			
Expected Maximum Daily Quantity	gpd	gpd	gpd
Date Available *First month/year of service expected or month/year when existing service began.*	__________________ (mm/yyyy)	_________________ (mm/yyyy)	_________________ (mm/yyyy)

** *Provide the calculations and documentation for the amount of storm water to be counted toward AWS use per catchment. Include documentation that the capture of this amount of stormwater runoff does not adversely impact the watershed, environment, existing legal users and off-site land use.*

** *If anticipated quantities are for less than 12 months per year, prorate the annual average accordingly.*

3. **Metered Use:** If an existing AWS facility is not metered, on an attachment explain how quantities delivered/created are measured.

❑ Attached

4. **Stormwater:** If any part of the AWS claimed is stormwater captured for use on-site, provide the name and Florida Department of Business and Professional Regulation License number for the individual who calculated the stormwater quantities that are captured.

❑ Not applicable

_____ _____

Print Name FDBPR License No.

PART VI. MINING OPERATIONS AND METHODS

Describe the mining and dewatering plans for the expected duration of mining up to 10 years. If more than one type of material mined was checked on page 1, indicate the geologic formation for each dewatering withdrawal point.

A. SITE PREPARATION/OVERBURDEN REMOVAL

1. Is dewatering proposed in advance of mining? ❑ Yes ❑ No **Skip to** "**B. MINING METHOD**."
2. If "yes," indicate dewatering purpose *(check all that apply)*: ❑ Site preparation ❑ Overburden removal
3. **Dewatering Well Information:** Provide information on dewatering wells in the tables below. Show the duration in number of months that the well will be required for its dewatering activity. Indicate the geologic formation (Ft. Thompson, Caloosahatchee, Tamiami, Hawthorn-Bone Valley, Hawthorn-Arcadia, Arcadia, Tampa, Nocatee, Suwannee LS, Ocala LS, Avon Park) that is to be dewatered or removed. If there are multiple mining phases, indicate the mine phase pertinent to the well. Indicate the proposed disposition of a well after dewatering (capped, plugged, removed). Reference each dewatering source to the map required in PART IV, Geologic and Hydrologic Evaluation, above. If a section of the table does not apply, denote with "N/A." Depths should be below land surface.

Reference pertinent information to the map required in PART IV, Geologic and Hydrologic Evaluation, above.

	Owner ID No.	**Owner ID No.**	**Owner ID No.**
District ID No.	❑ Existing ❑ Proposed	❑ Existing ❑ Proposed	❑ Existing ❑ Proposed
Casing Diameter	inches	inches	inches
Total Depth (ft. bls)			
Casing Depth (ft. bls)			
Pump Capacity	gpm	gpm	gpm
Mainline Diameter	inches	inches	inches
Currently Metered	❑ Yes ❑ No	❑ Yes ❑ No	❑ Yes ❑ No
Meter Type *(if currently metered)*	❑ Analog totalizing flow meter ❑ Digital totalizing flow meter	❑ Analog totalizing flow meter ❑ Digital totalizing flow meter	❑ Analog totalizing flow meter ❑ Digital totalizing flow meter
Meter Serial No. *(if currently metered)*			
Annual Average Quantity	gpd	gpd	gpd
Peak Month Quantity	gpd	gpd	gpd
Maximum Daily Quantity	gpd	gpd	gpd
Geologic Formation Dewatered			
Mine Phase			
Duration of Use	_____ (mm/yy) – _____ (mm/yy)	_____ (mm/yy) – _____ (mm/yy)	_____ (mm/yy) – _____ (mm/yy)
Future Disposition	❑ Cap ❑ Removed ❑ Plug	❑ Cap ❑ Removed ❑ Plug	❑ Cap ❑ Removed ❑ Plug

4. **Metered Use:** If an existing dewatering withdrawal point is not metered, or a proposed withdrawal point is not to be metered, attach an explanation of how dewatering quantities are measured.

❑ Attached

B. MINING METHOD *(Choose at least one mining method)*

1. Open Pit Mining With Dewatering: If the mining method is open pit mining with dewatering, answer questions below.

❑ Not applicable. **Skip to "Number 2. Dredge/Wet Mining"**.

a. Provide information on the surface water withdrawal points (pumps and withdrawal pipe) for each mine pit dewatering site in the table below. Indicate the material mined and geologic formation (Ft. Thompson, Caloosahatchee, Tamiami, Hawthorn-Bone Valley, Hawthorn-Arcadia, Arcadia, Tampa, Nocatee, Suwannee LS, Ocala LS, Avon Park) that is to be dewatered for mining. If there will be multiple dewatering withdrawal points operational at one time, provide information for each of them separately. If any surface water withdrawal point is to be moved to new dewatering locations as needed, only input the information once. The mining plan will show its subsequent locations

.	**Owner ID No.**	**Owner ID No.**	**Owner ID No.**
District ID No. *(if existing)*			
Status	❑ Existing ❑ Standby ❑ Proposed ❑ Dismantled	❑ Existing ❑ Standby ❑ Proposed ❑ Dismantled	❑ Existing ❑ Standby ❑ Proposed ❑ Dismantled
Intake Diameter *(outer)*	inches	inches	inches
Construction Date *(mm/yyyy)*			
Pump Capacity	gpm	gpm	gpm
Mine Cell Reference to Map			
Duration of Dewatering	From_____(mm/yy) To _____ (mm/yy)	From_____(mm/yy) To _____ (mm/yy)	From_____(mm/yy) To _____ (mm/yy)
Material Mined *(Limestone, Sand/Gravel, Shell, Peat, etc.)*			
Geologic Formation Dewatered *(Indicate all that apply. See list above)*			
Currently Metered	❑ Yes ❑ No	❑ Yes ❑ No	❑ Yes ❑ No
Meter Type *(if currently metered)*	❑ Analog totalizing flow meter ❑ Digital totalizing flow meter	❑ Analog totalizing flow meter ❑ Digital totalizing flow meter	❑ Analog totalizing flow meter ❑ Digital totalizing flow meter
Meter Serial No. *(if currently metered)*			
Mainline Outside Diameter	inches	inches	inches
Annual Average Quantity	gpd	gpd	gpd
Peak Month Quantity	gpd	gpd	gpd
Maximum Daily Quantity *(If any)*	gpd	gpd	gpd

b. If an existing dewatering withdrawal point is not metered, or a proposed withdrawal point is not to be metered, attach an explanation of how dewatering quantities are measured.

❑ Attached

c. Attach a detailed dewatering plan for the mining activities. The plan must include a description of the dewatering quantities anticipated through time on a monthly, annual, or other appropriate basis, for each mine cell proposed to be dewatered within the permit duration. If mining activity is to occur in phases, reference each phase with a tentative "begin" date. Reference each withdrawal point for dewatering using

the map in PART IV, Geologic and Hydrologic Evaluation. For each dewatered cell, indicate the maximum dewatered level and the expected length of time that the pit will be held at all levels of dewatering.

❑ Attached

2. **Dredge/Wet Mining:** If the mining method is dredge/wet mining, answer questions below.

❑ Not Applicable. **Skip to "Number 3. Dry Mining."**

a. Provide information on any wells or surface water withdrawal points that will be used to initially charge the mine pit or will be used to keep the mine pit charged with water to float the dredge. If more than one pit is to be created, indicate the order of use in "Mine Phase." Indicate the proposed disposition of a well after dewatering (cap or plug).

District ID No.	Owner ID No.	Duration of Use *(mm/yy to mm/yy)*	Mine Phase	Future Disposition of Charge Withdrawal
				❑ Cap ❑ Plug ❑ Removed ❑ Dismantle
				❑ Cap ❑ Plug ❑ Removed ❑ Dismantle
				❑ Cap ❑ Plug ❑ Removed ❑ Dismantle
				❑ Cap ❑ Plug ❑ Removed ❑ Dismantle

b. Attach a detailed dredge/wet mining plan describing the process for each mine cell. The plan must include, at a minimum, a description of how quantities are derived to fill a dredge pit and the estimated duration of the initial charging of the pit, if required. If the mining operation is to occur in phases, please give tentative dates for each phase.

❑ Attached

Note: *Applicant is required to provide reasonable assurance that the water used to charge the pit does not impact any off-site land use, existing legal withdrawal of water, or environmental features. See PART X, Impact Assessment. Reference pertinent information to the map required in PART IV, Geologic and Hydrologic Evaluation.*

3. **Dry Mining:** If dry mining is proposed for which water is required, attach a dry mining plan describing in detail the water needs associated with the process. Reference pertinent information to the map required in PART IV, Geologic and Hydrologic Evaluation.

❑ Attached

❑ Not applicable

4. **Combination of the three mining processes listed above:** If multiple mining methods are to be utilized, attach a detailed mining plan that addresses each process for each mine cell as appropriate as described above.

❑ Attached

❑ Not applicable

PART VII. WATER ROUTING

Describe how water from dewatering activities or from ground or surface water withdrawal points is to be used and transferred on site.

❑ Not Applicable. There is no routing of water onsite. **Skip to PART VIII ADDITIONAL WATER DEMAND**

A. WATER ROUTING DIAGRAM

Submit a plan-view diagram showing how water will be routed among the mine cells, recirculation ponds, settling ponds, hydraulic recharge/intercept ditches, recharge wells, dewatering wells, off-site discharge sites, etc., as well as to and from any on-site processing facilities. Include any water table drainage systems, existing or proposed. Major components shown on the diagram must be referenced to the map locations required in PART XV, Maps, or the water routing diagram can be drawn onto the ortho-photographic map required.

❑ Attached

B. OFF-SITE DISCHARGE POINTS

Complete the table below with information on all permitted off-site discharge points. Reference the discharge point number to the map required in PART IV, Geologic and Hydrologic Evaluation, above.

❑ Not applicable; there will be no off-site discharge of water.

Discharge Point No.	NPDES Permit No.	Daily Volume Discharge (gpd)	Source of Discharge	Receiving Water Body

C. HYDRAULIC RECHARGE/INTERCEPT DITCHES

❑ Not applicable; no hydraulic recharge/intercept ditches are proposed.

Provide detailed information describing the construction details of each hydraulic recharge/intercept ditch to prevent adverse impacts associated with dewatering as shown on the map required in PART IV, Geologic and Hydrologic Evaluation, above. Include the length, width, and depth of the recharge/intercept ditch, the geology of the matrix on each side and below the ditch, the source of water, and how the water level in each hydraulic recharge/intercept ditch will be maintained and monitored. The operation information must include monitoring and maintenance information to ensure the effectiveness of the hydraulic barrier.

❑ Attached

D. RECIRCULATION AND SETTLING PONDS

A recirculation pond is a settling pond that provides a source of water (Alternative Water Supply), and so it has or will have a surface water withdrawal point. If the water in a settling pond is not reused, it will not have a surface water withdrawal point, but it may have a discharge point.

Provide information of all existing and proposed recirculation and settling ponds in the table on the next page. Quantities required are annual averages in gallons per day. Reference each pond identification number to the map required in Maps Section, PART XIV, and complete information for that pond in the column below the identification number. Provide the date for the initial flow to the pond and the date at which the pond will be abandoned with respect to mining operations. Recirculation ponds, as a source of Alternative Water Supply (AWS), will have surface water withdrawal points that require an Owner ID Number. (Note, these should have been listed in the Alternative Water Supply section.) Either pond type may have a discharge point.

❑ Not applicable; there are no existing or proposed recirculation or settling ponds. **Skip to PART VIII.**

Recirculation and Settling Pond Table

	Pond Identification *(reference to map)*	**Pond Identification** *(reference to map)*	**Pond Identification** *(reference to map)*	**Pond Identification** *(reference to map)*
Existing or Proposed Pond	❑ Existing ❑ Proposed	❑ Existing ❑ Proposed	❑ Existing ❑ Proposed	❑ Existing ❑ Proposed
Owner ID Number	❑ Existing ❑ Proposed	❑ Existing ❑ Proposed	❑ Existing ❑ Proposed	❑ Existing ❑ Proposed
District ID Number *(if existing)*				
Pond Type	❑ Recirculation ❑ Settling	❑ Recirculation ❑ Settling	❑ Recirculation ❑ Settling	❑ Recirculation ❑ Settling
Pond Acreage				
Depth of Pond *(below land surface)*	feet	feet	feet	feet
Input Quantity	gpd	gpd	gpd	gpd
Input Source*	❑ Treatment Facility ❑ Mine Pit	❑ Treatment Facility ❑ Mine Pit	❑ Treatment Facility ❑ Mine Pit	❑ Treatment Facility ❑ Mine Pit
Estimated Infiltration Rate from water table**	gpd	gpd	gpd	gpd
Estimated Evaporative Losses	gpd	gpd	gpd	gpd
Quantity Withdrawn for Reuse *(recirculation ponds only)*	gpd	gpd	gpd	gpd
Quantities Discharged	gpd	gpd	gpd	gpd
Input Initiation Date *(mm/yy)*				
Termination Date *(mm/yy)*				

* Where does the water that flows into the pond originate (mine pit, refining facilities, etc.)

** The infiltration rate is the rate at which ground water flows into the pond.

PART VIII. ADDITIONAL WATER DEMAND

Compile all documentation of quantities, water balances and mining and dewatering water demand information into one document and attach it to this application form. Quantities and withdrawal points used for some of this information has been asked earlier in the application and will not be repeated here. Additional water demand not requested earlier is addressed here.

A. PRODUCT INFORMATION

1. Provide the estimated U.S. tons of product to be removed from the site each year. _____

2. Provide the percentage by weight of the water entrained with the product leaving the site: _____ %

3. Provide the quantities of water lost from the site due to product entrainment:

Annual Average _____ **gpd** **Peak Month (gpd)** _____ **gpd**

4. Attach the appropriate references and calculations with conversion to gallons per day.

❑ Included in attachment

B. MINING ACTIVITIES WATER DEMAND

Provide both a water balance table and water balance diagram for existing and proposed annual average and peak month water demands. The table and diagram must show all water sources (ground water from wells, ground water from water table dewatering or drainage, surface water, rainfall, recycled water, etc.), the amount of water entering and leaving each step in the process (uses, slurry creation, etc.), and all water losses (evaporation, product moisture, product entrainment, waste material water entrainment, steam losses, other processing water losses, sorting and grading, off-site discharge, recycling, etc.). Major water balance components may be constructed separately; however, links between components must be shown. Provide the percentage of unaccounted water losses for existing operations (total system throughout minus all accounted and in-plant uses). Show in the water balance where the unaccounted losses may be occurring. Include appropriate calculations to support the water balance tables or diagrams. (Quantities and withdrawal point identification for those quantities were made earlier in the application.)

❑ Tables and diagrams included in attachment

C. PLANT/FACILITIES WATER DEMAND

❑ Not applicable. There are no plants or facilities that need water associated with this project.

Provide both water balance tables and water balance diagrams on annual average and peak month processing/refining/water demands for each existing and proposed plant/facility. All quantities must be in units of gallons per day, and the total of all sources must equal the total of all losses. Include appropriate calculations to support the water balance tables or diagrams. (Quantities and withdrawal point identification for those quantities were made earlier in the application.)

❑ Tables and diagrams included in attachment

D. RECLAMATION WATER DEMAND

❑ Not applicable. Reclamation will not take place within the permit term or it will not require additional water demand.

If reclamation is to begin during the term of this permit, irrigation needs for plant and landscape establishment will require a separate application (for Recreation/Aesthetic water use). For non-irrigation water needs, describe and quantify those associated with the proposed reclamation activities. Include appropriate calculations on a spreadsheet or other electronic format to support the reclamation water demand.

District ID No.	Owner ID No.	Annual Average (gpd)	Peak Month (gpd)
	Subtotal:		

❑ Calculations included in attachment

E. CONSTRUCTION ASSOCIATED WITH MINING OR DEWATERING

❑ Not applicable. Water is not needed for construction.

If water is needed for construction associated with mining or dewatering, complete the table below:

District ID No.	Owner ID No.	Annual Average (gpd)	Peak Month (gpd)
	Subtotal:		

Provide documentation of the annual average and peak month water demand.

❑ Documentation included in attachment

F. FIRE FLOW (SUPPRESSION AND TESTING)

❑ Not applicable. Fire protection is provided by a public supply utility.

If fire protection is provided from an on-site water source, provide the quantities needed including quantities required to test and maintain the system.

Peak month = is for a single fire in a single month.

District ID No.	User ID No.	Annual Average (gpd)	Peak Month (gpd)
	Subtotal:		

❑ Documentation included in attachment

G. LAWN/LANDSCAPE IRRIGATION

❑ Not applicable. Irrigation water is not provided from withdrawal facilities on this property.

If water is used to irrigate 5 acres or less of lawn and landscape around the office or facilities, complete the table below. If more acreage is irrigated, you must apply for a separate Recreation or Aesthetic Water Use Permit.

District ID No.	User ID No.	Acres	Irrigation Method	Was AGMOD Used	Annual Average (gpd)	Peak Month (gpd)
				❑ Yes ❑ No		
				❑ Yes ❑ No		
				Subtotal:		

❑ AGMOD printout or other calculation of quantities included in attachment.

H. POTABLE/SANITARY REQUIREMENTS

❑ Not applicable; potable/sanitary requirements are provided by a public supply utility.

If water is provided for the potable/sanitary needs of employees, complete the table below.

Shift Number	District ID No.	Owner ID No.	Employees and Visitors/Shift	Workdays/ Week	Annual Average (gpd)	Peak Month (gpd)
1						
2						
3						
				Subtotal:		

I. MISCELLANEOUS USE

If water is needed for washing and maintenance of equipment and facilities, air conditioning, cooling, etc., complete the table below. (Washing of mined product is part of the material processing water needs).

❑ Not applicable. No other water uses are requested

District ID No.	Owner ID No.	Annual Average (gpd)	Peak Month (gpd)
	Subtotal:		

J. AUGMENTATION FOR MITIGATION

❑ Not applicable. Augmentation for mitigation does not occur and is not planned.

If water quantities are required to provide mitigation of impacts to wetlands, off-site land use, lakes, streams, etc., provide the information in the table below. The water source could be an aquifer, settling pond, etc.

District ID No.	Owner ID No.	Water Source	Annual Average (gpd)	Peak Month (gpd)
		Subtotal:		

TOTAL OTHER MINING AND DEWATERING WATER DEMAND: **Annual Average (gpd)** _____ **Peak Month (gpd)** _____

IX. MONITOR SITES

If there are monitor sites, including any withdrawal points that are used also for monitoring purposes, complete the next table using the codes from the list below.

If there are neither existing nor proposed monitor sites, check here ❑ and **skip to PART X**.

MONITOR TYPES

Code	Description	Remarks
DM	Discharge meter	*Measures discharge through a pipe*
EM	Effluent meter	*Discharge from a treatment plant or meter at a reuse customer's site*
EP	Evaporation pan	*Evaporation usually associated with a surface water body*
ES	Environmental monitor site	*Usually a wetland, lake, riverine environment, or estuary*
F	Flume	*Narrows flow and measures height in flume for discharge rate*
FM	Flow meter	*Measures flow in stream or river or site discharge, not from a withdrawal point.*
MW	Monitor well	*Monitors ground water*
PM	Piezometer	*Water table monitor*
RG	Rain gauge	*Rainfall*
SG	Staff gauge	*Flow rate or surface water body level indicator*
SS	Sample site	*Sample site at surface (land, lake, stream, spring, estuary, etc.)*
TM	Thermometer	*Temperature measurement*
WR	Weir	*Flow rate or water level indicator*

MONITOR USES

Code	Description	Remarks
AL	Aquifer levels	*Water levels in wells*
DF	Discharge flow	*From a site or facility*
EA	Environmental monitoring	*Water inflow to an augmented environmental site*
HB	Hydraulic Barrier	*Limit function to piezometer and staff guage*
LL	Surface water body water level	*Lake, pond, reservoir, riverine impoundment*
MP	Mine pit water levels	*Dewatering level in feet, NGVD or NAVD*
RF	Rainfall	*Local precipitation in inches*
S	Salinity	*Salinity of a surface water body*
SA	Salt water wedge	*Tidal function in an estuary*
SF	Stream flow	*Canal, stream, river*
SI	Aquifer Saline Water Interface	*Monitor well placed at the saline water interface in an aquifer*
SW	Aquifer Saline Water Intrusion	*Monitor well inland of saline water interface*

MONITOR USES (continued)

Code	Description	Remarks
TA	Temperature of air	*As stated*
TB	Water turbidity	*As stated*
TW	Temperature of Water	*Temperature of ground or surface water*
U	Contamination Plume	*Monitors location and concentration of contaminant plume in aquifer*
WF	Wetland function	*Measurement of the functional health of a wetland*
WL	Wetland water level	*Surface water level in a wetland*
WQ	Water quality	*Surface or ground water quality samples*
RE	Retention pond	*Levels in retention ponds, usually associated with augmentation*

	Owner ID No.	Owner ID No.	Owner ID No.	Owner ID No.	Owner ID No.
District ID No.					
Owner *(if other than applicant)*					
Monitor Type					
Monitor Use					
Frequency*					

* Hourly, daily, weekly, monthly, quarterly, semi-annually, annually, bi-annually (every other year), other (specify).

PART X. IMPACT ASSESSMENTS

All applicants for a water use permit must provide reasonable assurance that their water use will not cause adverse impacts to existing legal users, to the water resources or to offsite land use. The reasonable assurance is provided via the Impact Assessment.

❑ Not applicable. The impact analysis that was done for the previous revision of this permit suffices as a complete and current assessment of impacts to existing legal users, to the water resources or to offsite land use caused by the activity described in this application.

IMPACT ASSESSMENT GUIDELINES

Submit analyses and detailed documentation of the impacts predicted by the proposed mining and/or dewatering activities, including water withdrawals for any uses listed, water losses due to water entrainment with product, change in storage resulting from mining or dredge pit creation, and increased evaporation losses with respect to existing legal water users, off-site land uses, and environmental features (such as wetlands and other surface water features, whether natural or man-made). If the mining operation is dredge/wet mining, include an analysis of the impacts of pumping ground water to initially charge the pit. If Alternative Water Supplies (AWS) provide water that would otherwise be withdrawn from the resource, analyze the impacts assuming lack of AWS. The applicant is required to provide reasonable assurance that the mining or dewatering activity does not adversely impact any off-site land uses, existing legal withdrawals of water or environmental features.

The analysis must portray impacts caused by maximum water use and dewatering depths of each mine cell without mitigation efforts (such as hydraulic recharge ditches or recharge wells) as well as with mitigation efforts. Analyses and documentation provided to support this application must be signed and sealed by a qualified professional as specified in PART XVI, Professional Certification. Label and reference all elevations, water levels, and depths to either National Geodetic Vertical Datum 1929 or North American Vertical Datum 1988 as appropriate.

A. GROUNDWATER FLOW MODEL

❑ Not applicable. A groundwater flow model was not utilized in impact analyses. **Skip to Section B.**

If a groundwater flow model is used to predict drawdown impacts, the model must be run to simulate the maximum dewatered level to quasi-steady state or for the duration of dewatering each cell, whichever is less. If the dewatering will occur in stages, multiple models may be run to simulate the progression of dewatering through time. If mitigation efforts are proposed, a second model run must portray the effect of mitigation efforts to preserve the water table. Models provided to the District may utilize the MODFLOW 2000 (or current) groundwater flow

model code developed by the United States Geological Survey (Harbaugh, A.W., Banta, E.R., Hill, M.C., and McDonald, M.G., 2000) or a combination of integration with an accepted surface water flow model and MODFLOW groundwater flow model. Any models to be provided in support of a WUP application must be fully adaptable and functional for use with Ground Water Vistas software. If there is intent to use the District's calibrated model, it is recommended that the user schedule a pre-application meeting with the District to go over modeling procedures. All inputs and outputs to all packages and components of the models must be provided, and all parameters chosen must be documented and supported. Provide an overlay on the map required in PART XIV, Maps, indicating predicted water table elevations resulting from dewatering ***without*** mitigation at appropriate contour intervals to clearly delineate the extent of dewatering drawdown. If mitigation is proposed, provide an additional overlay demonstrating the modeled effect of the proposed mitigation efforts. The model files must be submitted in electronic format and in hard copy.

❑ Attached

B. OTHER DRAWDOWN ASSESSMENT METHODS

❑ Not applicable. This method was not utilized in an impact analyses.

If a drawdown impact assessment other than a groundwater flow model is submitted, describe the methodology, document that it is appropriate for the use intended, and provide input and output information and/or calculations used within the methodology, along with the results. Demonstrate that the calculations and the methodology used are supported by the hydro-geological regime. The drawdown assessment must clearly delineate drawdown impacts caused by maximum dewatering depths of each mine cell without mitigation efforts, in addition to with mitigation efforts such as water table recharge ditches. The drawdown assessment must be submitted in electronic format and in hard copy.

❑ Attached

PART XI. ENVIRONMENTAL MANAGEMENT PLAN

If the analysis in PART X, Impact Assessments, above, identifies potential impacts to wetlands, lakes, springs, streams, estuaries, fish and wildlife, or other environmental features, then the applicant must submit an Environmental Management Plan (EMP). The EMP must describe the pre-mining or pre-dewatering conditions within the systems to be protected, describe protection measures that will be used to prevent adverse impacts, monitor the effectiveness of the protection measures, set thresholds for mitigation actions, and describe the mitigation actions to be taken if impacts occur. All elevations, levels and depths must be relative to NGVD 1929 or to NAVD 1988 as appropriate. The datum used must be clearly identified in the report and labeled on diagrams and maps.

Does the impact analysis, conducted prior to the addition of any protection measures, predict any potential impacts to wetlands or other environmental features? ❑ Yes ❑ No **Skip to PART XII.**

If "yes," submit the following in an EMP:

A. BASELINE ASSESSMENT

The baseline assessment must be conducted for a sufficient duration and frequency prior to the initiation of mining, dewatering, or groundwater withdrawals to present a thorough characterization of the normal hydrology of those systems. The baseline assessment must consist of:

1. Identification and initial assessment of current hydrologic and vegetative conditions of all on-site environmental features that are not permitted to be impacted and are predicted to be hydrologically impacted if protection measures fail. Furthermore, all off-site environmental features that are predicted to be hydrologically impacted if protection measures fail must also be identified and have separate assessments documenting their current hydrologic and vegetative conditions. The assessments must be both quantitative and qualitative (using photographs and description).

2. Identification and initial assessment of a variety of non-impacted reference environmental features with which to compare each potentially impacted environmental feature during mining or dewatering activities.

3. Identification of pre-mining and pre-dewatering water table levels and wetland water levels including normal hydro-period fluctuations.

B. PROTECTION MEASURES

All predicted adverse impacts to environmental features must be avoided. The EMP must fully describe the protection measures that are designed to prevent predicted adverse impacts to environmental features. The on-site and off-site environmental features that are to be preserved and the associated protection measure must be identified and an explanation given for each concerning how and why the protection measure(s) will work as designed. Each protection measure must be depicted on the map required in PART IV, Geologic and Hydrologic Evaluation, above. The permittee must put all protection measures into effect prior to mining/dewatering or prior to pumpage from wells, if applicable.

C. MONITORING PLAN

The monitoring plan must describe in detail the baseline assessment, as well as the monitoring location, timing, and reporting periods for the long-term assessment. A long-term monitoring plan including the sampling protocol, must be designed to provide surface water levels, surficial aquifer water levels, and potentiometric surface for both the protected and reference environmental features. The monitoring plan must also include a wetland assessment protocol sufficient to provide long-term information on the wetland plant community of each potentially impacted wetland or surface water.

D. MITIGATION THRESHOLDS

The EMP must establish a hydrologic impact detection protocol to provide metrics for comparing the hydrology of potentially impacted wetlands and streams to the hydrology of reference environmental features. It must describe site-specific thresholds or triggers that will alert the permittee and the District that the protection measure(s) appear to be insufficient, and will initiate implementation of mitigation actions.

E. MITIGATION ACTIONS

The EMP must describe sequential and progressive actions that will be taken to quickly correct unexpected hydrologic impacts to preserved environmental features. The description of the actions to be taken in the mitigation plan must detail what these activities are, what they are meant to accomplish, and how they are to be monitored for success. The EMP must also contain a statement that if water levels in environmental features cannot be maintained while mining and/or dewatering actions are underway, then the permittee shall immediately cease mining and/or dewatering.

❑ Attached

PART XII. SOUTHERN WATER USE CAUTION AREA

If at least one withdrawal point is located in the Southern Water Use Caution Area (SWUCA), the entire permit is considered to be in the SWUCA. If this is the case it is required that the SWUCA Supplemental Form be included with this application. Within the SWUCA supplemental form, the applicant will be directed to add other supplemental forms if they are required.

❑ Attached

PART XIII. WATER CONSERVATION

Submit a water conservation plan that insures efficiency of use and provides for increasing efficiency of use by implementing environmentally, technically and economically feasible water conservation measures. The plan shall include water conservation practices and utilization of water conserving technologies applicable to all components of demand and loss including recycling, reuse, and utilization of water-efficient irrigation practices on drought-tolerant landscaping. An implementation schedule shall be included for each water conservation measure anticipated, and progress reports shall be required based upon the implementation schedule.

In addition to the requirements for new applicants , above, the water conservation plan for renewal or modification of a mining or dewatering water use permit shall describe and quantify where and when water savings have been achieved by existing practices and identify where, when and how much water savings can be reasonably achieved by incorporating proposed water conservation measures. An implementation schedule shall be included for each proposed conservation measure, and progress reports shall be required based upon the implementation schedule.

❑ Attached

PART XIV. MAPS

A. MINE PROJECT SITE MAPS

Submit a recent digital ortho-photographic map or maps of the entire project that delineates or plots the features listed below. The ortho-photographic maps on the District's geographic information system (GIS) may be utilized. If the District's ortho-photographic maps are not used, then the minimum scale for the hardcopy map submitted must be 1 inch = 2,000 feet. Road names must be clearly shown. Label all items in the list below.

1. Applicant property boundary.

2. If this application includes non-contiguous owned or leased parcels, or if the parcel(s) to be serviced are a distance from the withdrawal point locations, provide separate large-scale maps (those that enlarge the area) of each parcel in addition to a smaller-scale (those that show a larger area) map that includes all parcels.

3. Ponds, pits, lakes, streams, canals, rivers or any surface water body that is to be used as a water source. If a surface water source is to be constructed, outline its proposed footprint on the map.

4. Interconnected withdrawal points such as augmentation-repump systems.

5. Label each surface water withdrawal point location with the District ID No. or the Owner ID No. for identification.

6. Indicate the boundaries of each mine pit and mine cell, referenced to the cross sections required in PART IV, Geologic and Hydrologic Evaluation. If the mining/dewatering will be done in phases, indicate the relative progression of mine pit areas to be dewatered/mined for the permit duration term. Label them numerically or by anticipated month/year.

7. Identify the location of each cross section and label them for reference to the cross sections required in PART IV, Geologic and Hydrologic Evaluation.

8. Identify the existing and proposed dewatering withdrawal location for each mine cell referenced to the table required in PART VI, Mining Operations and Methods.

9. Identify existing or proposed pumps used to route water on-site and label them to reference information required in the water routing diagram.

10. Indicate any existing or proposed surface drainage ditches intended to lower the water table.

11. Identify and label each existing and proposed ground water well with the District ID No. (if one exists), Owner ID No. and its proposed use, using the symbols delineated below:
- **a.** Recharge well(s) used to mitigate environmental and water resource related drawdown impacts as **RC**
- **b.** Dewatering well(s) as **C**
- **c.** Augmentation well(s) for floating a dredge as **AU**
- **d.** Standby well(s) as **SB**
- **e.** Capped well(s) as **CA**
- **f.** Plugged well(s) as **PL**
- **g.** Existing wells to be plugged and abandoned as mining progresses as **TP**
- **h.** Charge wells to fill a mine pit with water to float a dredge as **CH**

12. Recirculation and/or Settling Ponds – Indicate existing and proposed recirculation and/or settling ponds, labeled for reference to PART VII, Water Routing.

13. Hydraulic recharge ditches – Identify the location of existing and proposed hydraulic recharge ditches, labeled to reference to the cross sections required in PART IV, Geologic and Hydrologic Evaluation.

14. Off-site discharge points – Indicated locations of existing and proposed off-site discharge points, including dredge-line discharges and settling pond discharges, labeled to reference to the information required in PART VII, Water Routing.

15. On-site Environmental – Delineate all on-site wetlands and surface waters and indicate the type using the symbols delineated below:
- **a.** Environmental features to be preserved under an ERP or DRI permit as **ERP-P**
- **b.** Environmental features to be mined as **M**
- **c.** Environmental features to be reclaimed under a DEP Reclamation Plan as **DEP-R**
- **d.** Environmental features to be created under an ERP mitigation plan as **ERP-C**
- **e.** Environmental features that are located on-site but outside the ERP project area and that are not to be mined as **N-M**

16. Off-site Environmental – Delineate all off-site wetlands and other surface waters, whether natural or man-made, within the 0.1 foot drawdown contour or where drawdown exceeds 0.1 foot in the water table, as predicted by the impact analyses required in PART X, Impact Assessments.

17. Off-site Land Use – Identify and label all land uses adjacent to the property to be mined or dewatered (e.g., residential, citrus grove, etc.) that falls within the 0.1 foot drawdown contour or where drawdown exceeds 0.1 foot in the water table, as predicted by the impact analyses required in PART X, Impact Assessments.

18. Out Parcels – Identify the name, address and telephone number for owners of out-parcel land that is inside the project area.

19. Monitoring Sites – Delineate all existing and proposed monitoring locations according to Owner ID No. and indicate types using the abbreviations given PART IX, Monitor Sites:

❑ Mine project site maps attached

B. FACILITY MAP

If the mined materials are processed and part of the water demand included in this application is involved in the processing, submit a map of the processing facilities. Show all withdrawal points associated with the processing, incoming slurry lines, discharges to settling or recirculation ponds or off-site, and water storage facilities. Include any withdrawal points used for potable/sanitary use, landscape irrigation, or fire flow.

❑ Facility map attached

PART XV. PERMIT TYPE

For fee and permit duration aspects, this permit will be classified as a General Water Use Permit Type if the total water demand is less than 500,000 gpd on an annual average basis. It will be classified as an Individual Water Use Permit Type if the total water demand is 500,000 gpd or more on an annual average basis.

A. GENERAL WATER USE PERMIT ❑ Check here if your total annual average demand is less than 500,000 gpd. The permit processing fee is that of a General Water Use Permit.

New permit: $250 Renewal: $185 Modification: $75

B. INDIVIDUAL WATER USE PERMIT ❑ Check here if your total annual average demand is 500,000 gpd or more. The permit processing fee is that of an Individual Water Use Permit.

New permit: $1,000 Renewal: $750 Modification: $300

PART XVI. PROFESSIONAL CERTIFICATION

Any geologic or hydrogeologic documents and reports submitted in connection with this permit application must be dated, signed and sealed by a qualified professional who has the expertise and training to make geological and hydrogeological interpretations pursuant to Chapters 492 and/or 471 Florida Statutes (F.S.).

I hereby certify that I am a qualified professional pursuant to ❑ 492 F.S. or ❑ 471 F.S. (check one) to make geological and hydrogeological interpretations for this water use permit application.

_____ _____ _____

Name License No. Date

_____

Print Name

PART XVII. APPLICANT/OWNER CERTIFICATION

All owners of the property described in this application are included as co-applicants of this permit. Please attach their signatures to a document that attests that they are aware of this application and agree to its content, or that they have empowered the signer below with authority to act on this application on their behalf.

❑ Attached ❑ Not applicable

BUSINESS ENTITY AS APPLICANTS

If the permit applicant is a business entity, indicate the type of business entity below and provide the name and title of the person signing on behalf of the business entity. Attach documentation of the status of the business entity to legally operate in the State of Florida, such as a copy of the last corporate annual report submitted to the Florida Department of State or a Certificate of Status issued by Florida Department of State.

❑ Florida Corporation ❑ Florida General Partnership ❑ Florida Limited Liability Company

❑ Florida Limited Partnership ❑ Foreign Corporation/Partnership ❑ Trust

❑ Other: _____

I hereby certify that the information contained herein is true and accurate and that I have legal authority to undertake the activities described herein and execute this application.

_____ _____

Applicant signature/Consultant or Contact signature* Date

_____

Name and title if signing as business entity applicant*

* *If this application is being submitted by a consultant or contact, a signed document from the landowner(s) must be attached giving authority to sign and submit this application.*

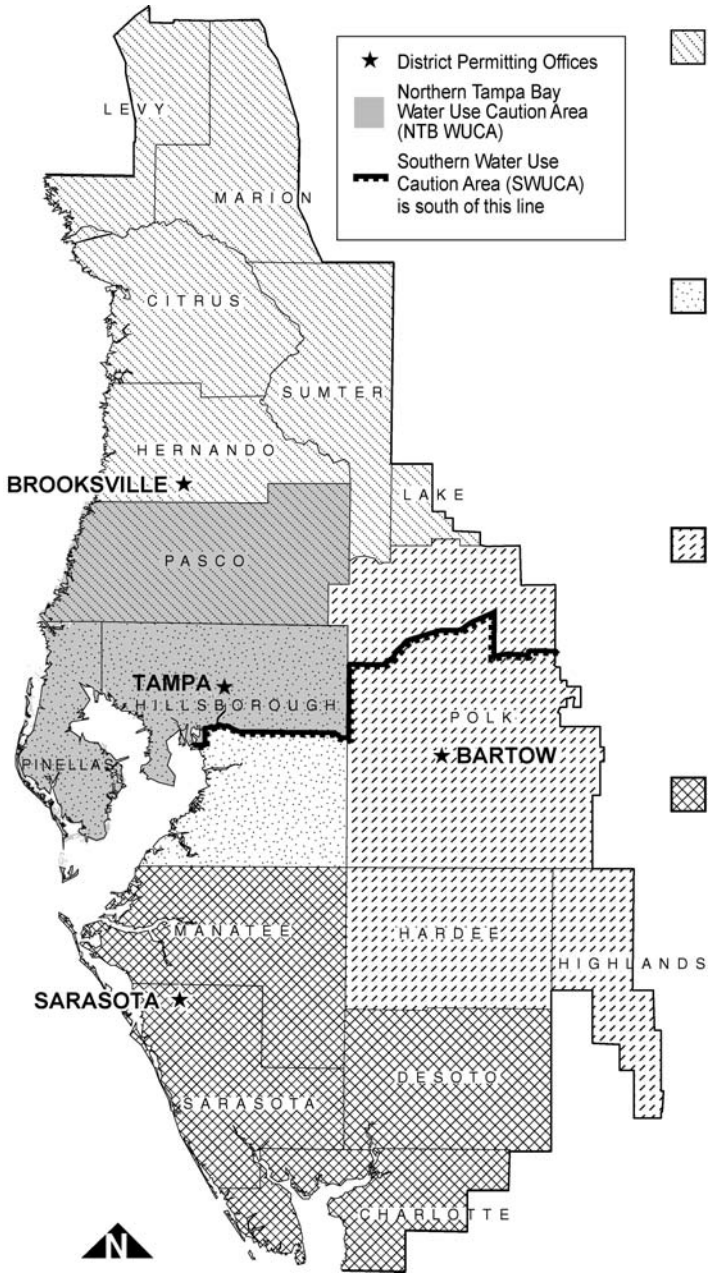
Southwest Florida Water Management District

WATERMATTERS.ORG · 1-800-423-1476

Southwest Florida Water Management District

Applicants for water use and environmental resource permits may submit their applications to any District Permitting Office; however, it is recommended to submit them to the Permitting Office within the Service Region where their property is located. All activities concerning these permits will be conducted at these Permitting Offices. Applications for well construction permits may also be submitted to any Permitting Office; however, applications for well construction permits in Marion, Sarasota and Manatee Counties are evaluated and issued locally by county agencies.

Resource Regulation Service Regions



Resource Regulation Permitting Offices

Brooksville Regulation Department

Citrus, Hernando, Lake, Levy, Marion, Pasco, Sumter counties.
2379 Broad Street
Brooksville, FL 34604-6899
(352) 796-7211 or 1-800-423-1476 (FL only)
Fax: (352) 540-6027; Suncom: 628-4150

Tampa Regulation Department

Hillsborough, Pinellas counties.
7601 U.S. Hwy. 301
Tampa, FL 33637-6759
(813) 985-7481 or 1-800-836-0797 (FL only)
Fax: (813) 987-6747; Suncom: 587-2070

Bartow Regulation Department

Hardee, Highland, Polk counties.
170 Century Boulevard
Bartow, FL 33830-7700
(863) 534-1448 or 1-800-492-7862 (FL only)
Fax: (863) 534-7058; Suncom: 572-6200

Sarasota Regulation Department

Charlotte, DeSoto, Manatee, Sarasota counties.
6750 Fruitville Road
Sarasota, FL 34240-9711
(941) 377-3722 or 1-800-320-3503 (FL only)
Fax: (941) 373-7660; Suncom: 531-6900

TDD: 1-800-231-6103 (FL only) for hearing assistance for all locations.

The Southwest Florida Water Management District (District) does not discriminate on the basis of disability. This nondiscrimination policy involves every aspect of the District's functions, including access to and participation in the District's programs and activities. Anyone requiring reasonable accommodation as provided for in the Americans with Disabilities Act should contact the District's Human Resources Director, 2379 Broad Street, Brooksville, Florida 34604-6899; telephone (352) 796-7211, ext. 4702 or 1-800-423-1476 (FL only), ext. 4702; TDD (FL only) 1-800-231-6103; or email to ADACoordinator@swfwmd.state.fl.us.